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(54) PRODUCTION OF SUPPORTED CATALYST FOR POLYMERIZATION OF ETHYLENE AND FOR COPOLYMERIZATION OF ETHYLENE WITH ALPHA-OLEFIN

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a polymer having a controlled narrow particle size distribution and a high bulk density by performing the (co)polymerization in the presence of a catalyst prepared by reacting a specified organomagnesium compound (A) with an organohalogen compound (B) under specified conditions.

SOLUTION: In producing a supported catalyst for the polymerization of ethylene or the copolymerization of ethylene with an α -olefin by reacting a solution of component A with component B to form a magnesium-containing support and treating this support with a titanium or vanadium compound, component A used is a compound having a composition represented by the formula: $MgPh_2/nMgCl_2/mR_2O$ (wherein (n) is 0.37-0.7; $m \geq 0.5$; R_2O is an ether; and Ph is a phenyl). This compound is obtained by reacting metallic magnesium with chlorobenzene in the presence of dibutyl ether. Component B is, for example, carbon tetrachloride. Component A is reacted with component B at a component B/Mg molar ratio of 0.5 or above at -20 to 80°C to obtain the objective supported catalyst.

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